

Name _____

Changing Mixtures
Lab 18

Review

- A. The melting point of ice is _____.
- B. The freezing point of ice is _____.
- C. The boiling point of water is _____.

18.1 Adding Salt to Ice

1. What was the temperature of the crushed ice?

Beaker A: _____ Beaker B: _____

2. What do you **predict** will happen when 1 teaspoon of salt is added to the ice in Beaker A?

3. What do you **predict** will happen in Beaker B without the salt?

4. What **actually** happened to the ice in Beaker A when you added 1 teaspoon of salt?
Also write the temperature.

5. What **actually** happened to the ice in Beaker B without the salt?
Also write the temperature.

6. What effect does salt have on the state of matter of ice?

7. What effect does salt have on the temperature and melting point of ice?

18.2 Adding Salt to Boiling Water

8. How can you tell the water is boiling?

9. What do you **predict** will happen if 2 teaspoons of salt are added to the already boiling water?

10. What **actually** happened when the salt was added to the water?

11. What effect did salt have on the boiling point of water?

Conclusions

***12. Is it possible to change the melting and boiling points of ice/water?
If so, HOW?

***13. What effect does the salt have on the melting and boiling points of water?

Applications

Salt + ice + water (melting ice) = _____

Brine solution has a _____

***14. Why is salt added to icy roads?

***15. Why is salt used in making ice cream?